NO. 40-DEMOUNTABLE RIMS.

Only those who drove automobiles before the introduction of the de-nountable rim can appreciate the convenience of them. In the old days when a tire was punctured it meant from half an hour to an hour, and even more, of extremely hard and dirty work, but now the jacking up of the car is about the hardest part of the work.

When difficulty is found in changing three now it is generally due to

carelessness in preparing the rim and wheel felloe by cleaning off the rust or to carelessness in putting the spare tire on to the spare rim. A minute of easy work and extra care in this respect will often save fifteen to twenty minutes of hard work.

Care must also be exercised to have the new rim and tire true on the wheel, as if wheel, as if wheel, as if wheel is placed on the wheel so as to be out of true the tire will wear quickly. You no doubt have often seen cars running ahead of you, the wheels of which "wiggled" and you thought that the car had a bent axle. Had you looked at the hub you would have seen that it ran true, the "wiggling" being entirely due to the tire and demountable rim not having been put on correctly.

That is that one reason why that car is so charming and runs so beautifully show is charming and runs so beautifully is that twenty-one national automobile Show in Grand Central Palace the week of January 7 to 14 and in chicago January 28 to February 4 represents the culmination to date of all the brains and ingenuity of thousands of inventors, designers and engineers who have contributed to the industry since its inception.

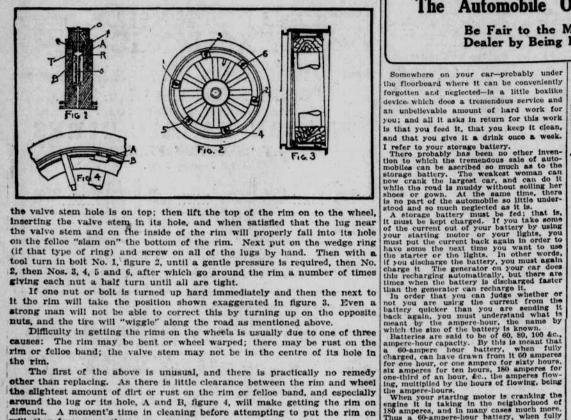
been put on correctly.

In order to have the demountable rim tight upon the felloe of the wheel practically all rims are made secure by means of wedges. These wedges may be in the form of rings or may be six or eight short wedges.

since its inception.

The twelve cars that will be shown at a national show in the Palace for the first time are the Ambassador, Bournouville, Durant, Earl, Goodspeed, livery in the spring of 1922.

The way to put on a rim is as follows: First scrape with a file or sand paper all rust from the rim and felloe band; then turn the wheel so that



the slightest amount of dirt or rust on the rim or felloe band, and especially around the lug or its hole, A and B, figure 4, will make getting the rim on difficult. A moment's time in cleaning before attempting to put the rim on the rim on the rim on the difficulty of getting the rim on is due to the valve stem in the difficulty of getting the rim on is due to the valve stem is not in the centre of its hole it will be too close or far from the lug on the inside of the rim (the purpose of which is to transmit the drive of the wheel to the rim and tire) and a condition shown in figure 4 will obtain. When this is the case the remedy is to let some of the air out of the tire and then reinflate.

Figure 1 of the illustration shows the valve, which is almost universally the form of the battery.

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The Tire Valve.

The Tire Valve.

Figure 1 of the illustration shows the valve, which is almost universally used. Here A is the body of the valve or the valve stem, B, including the spring and parts O, P, R, T, &c., is called the valve inside. The action of the valve is as follows: The screw O by pressing the rubber washer P against the shoulder Q of the valve stem will prevent the air leaking out of the side, while the flange R of the valve plunger by compressing the small rubber washer T will prevent the air leaking out around the valve plunger. The flange R is held against the washer by the pressure of the air in the tube and not by the spring shown, the spring acting more as a guide.

When it is desired to let air out of the tire the plunger S is pressed in, which will press the flange R away from its washer and so let the air escape around the plunger. When the tire is being blown up the pressure on the flange R will be greater than that in the tube, and so the flange will be pressure inside the tube will be greater than that outside and the flauge will again be pressed against the washer, and so prevent the escape of the air.

A "slow leak," that is, when the tire becomes flat over night or in two or three days, is usually due to a defect in the valve inside, the rubber washers and so leaking a derivating a drop of water or saliva on the mouth of the valve inside, the rubber washers and so leaking by putting a drop of water or saliva on the mouth of the valve inside, the rubber washers and so leaking when he received a bill at 15 cents a day the flauge will again be pressed against the washer, and so prevent the escape of the air.

A "slow leak," that is, when the tire becomes flat over night or in two or three days, is usually due to a defect in the valve inside, the rubber washers being worn or torn. Replacing the valve inside, the rubber washers and so flow the received a bill at 15 cents a day of water or saliva on the mouth of the valve is leaking by putting a drop of water or saliva on the mouth of the valve is leak



J. J. HUNT, of the HUNT MOTER CAR COMPANY, WHO IS TO BE the METROPOLITAN DISTRIBUTOR for the NEW RICKENBACKER CAR.

manufactured under the supervision of Capt. Edward V. Rickenbacker, the American "ace of aces." The car will make its public debut at the New York Automobile Show at Grand Centra! Palace, January 7 to 14. That it will attract as much attention as any car at the exposition is a foregone conclusion, not only because of the man in whose honor the car was named and his war achievements and his record in automobile racing prior to that, but because the new car is especially attrac-

of water or saliva on the mouth of the valve. If it leaks the saliva will form in bubbles. Screwing the valve-inside in a little harder will often remedy the trouble, but too much strength must not be used in doing this. Do not use a pair of plyers.

HUNT TO SELL THE RICKENBACKER CAR

One of the most important automobile deals closed in months was consumtable deals closed in the fact that the new product will be aggressively merchandized in this territory is assured in the fact that Mr. Hunt is of direct its destinies. Prior to his entry into the automotible business nearly wently years ago he was prominent in the bicycle industry and to-day he is on the prior of the prior of the great industries.

No part of the care importance of giving warring institute in the medium prior of the Reo Motor Car Company of New York would distribute the new Prior of the Reo Motor Car Company of New York would be accounted that the weather is becoming the international prior of the Reo organization in the day of the prior of the prior of the prior o

conular of Christmas gifts was proved by the large number of sales we have made on Hudson and Essex cars during the last week," says Harry S. Houpt, the Hudson and Essex distributor.

"As a matter of fact," he continued, "practically every sale we have made during the past two weeks called for delivery on or about Christmas, which indicates that they were purchased as



USED SEDANS COUPES & TOURINGS 1920-21 MODELS

\$200 up Good, reliable, conditioned and guaranteed cars can be had as low as \$200. Ask about our G. M. A. C. partial payment plan. Unquestionably best exist-

ing values. CHEVROLET MOTOR CO., B'way, at 57th St. Tel. Circle 3100

# TO BE AT PALACE

Ninety - two Manufacturers Will Exhibit Latest Creations.

Those fortunate folk who find a beautiful shining automobile left by Mr. Santa Claus at the front door this Merry Christmas morn may appropriately give a thought or two to one potent fact.

That is that one reason why that car

weil, Rickenbacker, Whils St. Chaire, Itala and Vauxnall. The last two are the foreign displays.

The complete list of cars at New York follows: Ambassador, Anderson, Apperson, Auburn, Bournonville, Buick, Cadillac, Case, Chalmers, Chandler, Chevrolet, Cleveland, Cole, Columbia, Crow-Eikhart, Davis, Detroit Electric, Dixlo Flyer, Dodge Brothers, Dorris, Dort, Du Pont, Durant, Earl, Elear, Eligin, Essex, Franklin Gardner, Goodspeed, Grant, Handley-Knight, Hanson, Hudson, Hupmobile, Itala, Jordan, Kelsey, King, Kissel Kline Kar, Lafayette, Leach-Biltwell, Lexington, Liberty, Lincoln, Locomobile, McFarlan, Malbohm, Marmon, Maxwell, Mercer, Milburn, Mitchell, Moon, Nash, National, Noma, Oakland, Oldsmobile, Overland, Packard, Palge, Paterson, Peceless, Pierce-Arrow, Pilot, Premier, Rauch-Lang, R. & V. Knight, Reo, Rickenbacker, Roamer, Saxon, Sayers, Standard, Stanley, Stearns-Knight, Stephens, Stevens-Duryea, Studebaker, Stutz, Templar, Vauxhall, Velle, Westcott, Wills St. Claire and Willys-Knight.

BARNEY'S BIG ORDER.

Word has just been received in trade circles that Barney's Auto Parts Company, Inc., 236 West Fiftieth street, has

# The Automobile Owners' Obligation

Be Fair to the Manufacturer and Dealer by Being Fair to Your Car

Somewhere on your car-probably under the floorboard where it can be conveniently forgotten and neglected—is a little boxlike device which does a tremendous service and an unbelievable amount of hard work for you; and all it asks in return for this work is that you feed it, that you keep it clean.

# **BREVOORT** GARAGE, Inc.

12th St. and University Pl.

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This Garage is absolutely the last word in garage construction, completely fire-proof, equipped with runways that eliminate waiting for elevators. Will conveniently accommercial cars; heated throughout, equipped with Curtis Pneumatic Air Compressors and Acme Gas Pumps, which guarantee to give correct measure. Entire plant equipped with duplicate system in case of breakdown. Chauffeurs' rest rooms and lockers on each floor. Light, airy and cheerful. Top floor is devoted entirely to dead storage at \$10 per month. We cordially invite your inspection. Representative will call upon request to quote rates.

# SOUTHWORTH LARGEST DEGLARESCOPE NOW DISTRIBUTOR OF AUTOS

The New York manager of the Buick Motor Company branch, A. G. Southworth, has the distinction of being the largest distributor of automobiles in the world. For years Mr. Southworth nas been responsible for marketing 7,000 to 9,000 Buick cars in the metropolitan district. These cars have represented a business of from twelve million to sixteen million dollars a year. During 19:1 the New York Buick branch broke all previous years' records by over two million dollars.

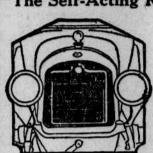
In order that Buick may not lose a

ion dollars.

In order that Buck may not lose a great volume of business offered in the metropolitan district on account of deliveries, Mr. Southworth is making every effort to secure for the New York branch 14,000 1922 Bulcks valued at over twenty million dollars.

# many noted practical inventions for commercial use have originated, now comes what is regarded in many quarters as the real solution of the glaring headlight problem. The device is called the "Deglarescope," and is unlike anything now on the market. It has been designed and developed to a point of practical use by William Suddards Franklin, professor of physics, and Elof Benson, curator of apparatus. The Deglarescope Company, 1519 Maple street, Detroit, has been organized by Toner and a few other well known figures in the motor world, and they are now ready for production.

"The Self-Acting Radiator Shutter-Cover"



A Necessity-NOT a Luxury You can't forget to open or close it, your motor temperature working on a thermostat does it for you. Maintains summer temperature in your motor and radiator without

From the faculty of the Mas

Your car will start easier and run better with WINTERFRONT. Easily applied in 5 minutes—can't get out of order—improves appearance of car. Approved by all car manufac-turers. Special models for all cars, Costs little more than an ordinary shutter. Send for detailed descriptive booklet.

RYAN & HUGHES, INC., 1698 B'wy, N. Y. G. J. SEEDMAN CO., 419 Flatbush Ave. (Extension), Brooklyn. AUTOMOTIVE EQUIPMENT CO., 317 Halsey St., Newark, N. J.

# TISDALE JOINS ARMY; HEADS BUDGET GUARD

READY FOR MARKET many noted practical inventions for

Motor Car Company of New York, has accepted appointment as commander of the automobile accessories division in the mobilization of New York business men in the Budget Guard, being organitive trades as division commanders.

# Where, at Any Price Can You Get More?

If you haven't seen, closely examined, and ridden in the new "REO SIX" Sedan you should lose no more time in treating yourself to that pleasure. Study this latest creation of the Reo shops minutely-critically.

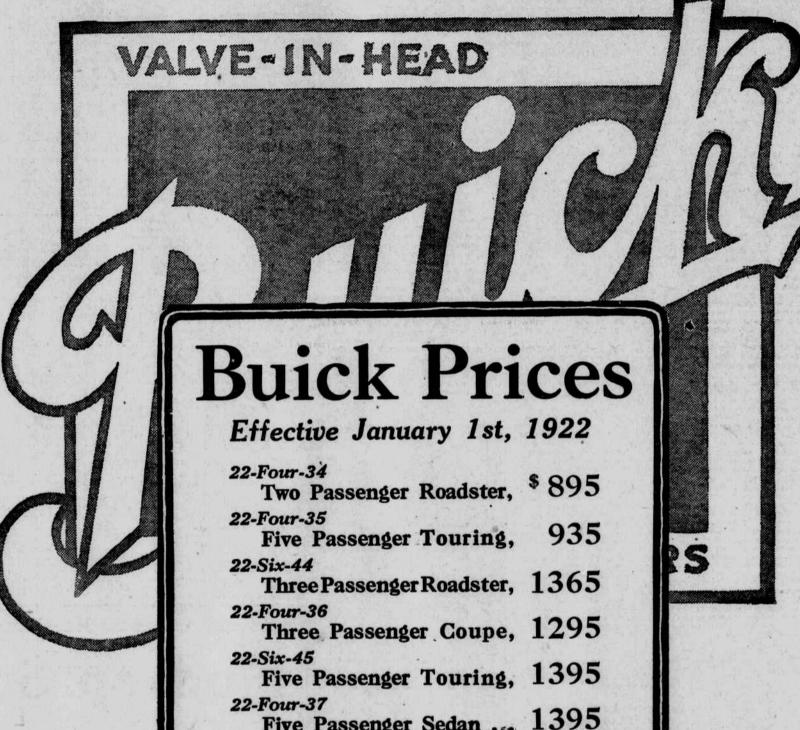
We'd prefer that you didn't know the price until you had seen and compared.

Then you would be amazed to find that you could possess this magnificent Sedan at so low a figure.

The Reo will be Exhibited at the Auto Show, Grand Central Palace, Jan. 7-14

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